

Title (en)

ROTOR OF INDUCTION MOTOR, AND INDUCTION MOTOR USING SAME

Title (de)

ROTOR FÜR EINEN INDUKTIONSMOTOR UND INDUKTIONSMOTOR DAMIT

Title (fr)

ROTOR DE MOTEUR À INDUCTION ET MOTEUR À INDUCTION UTILISANT CE ROTOR

Publication

EP 2579433 A4 20170118 (EN)

Application

EP 11786677 A 20110525

Priority

- JP 2010121987 A 20100527
- JP 2011061989 W 20110525

Abstract (en)

[origin: EP2579433A1] A rotor (4) of an induction motor (1) rotatably disposed inside a hollow portion (3) of a stator (2) of the induction motor (1) and rotating under a magnetic force from a magnetic field formed inside the hollow portion (3) by the stator (2). The rotor (4) includes a pair of annular conductors (10, 10), and a plurality of bar-like conductors (11) connected between the pair of annular conductors (10, 10) and configured to form a basket shape along with the pair of annular conductors (10, 10). The annular conductors (10, 10) and the bar-like conductors (11) are respectively formed by a compound material with a conductive core conductor (12) and a carbon nanotube structure (15) attached to an outer periphery of the core conductor (12) in an electric contact state.

IPC 8 full level

H02K 17/16 (2006.01)

CPC (source: EP US)

H02K 3/02 (2013.01 - EP US); **H02K 17/168** (2023.05 - EP US); **B82Y 99/00** (2013.01 - US); **Y10S 977/932** (2013.01 - US)

Citation (search report)

- [A] JP 2007157372 A 20070621 - NISSAN MOTOR, et al
- [A] US 2002186113 A1 20021212 - HJORTSTAM OLOF [SE], et al
- [E] US 2011163627 A1 20110707 - WANG YUCONG [US]
- See also references of WO 2011148978A1

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Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

EP 2579433 A1 20130410; **EP 2579433 A4 20170118**; CN 102918754 A 20130206; CN 102918754 B 20150311; JP 2012010583 A 20120112; JP 5825848 B2 20151202; US 2013181570 A1 20130718; WO 2011148978 A1 20111201

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EP 11786677 A 20110525; CN 201180026254 A 20110525; JP 2011061989 W 20110525; JP 2011116988 A 20110525; US 201113699889 A 20110525